

PRP Cytokines



Colostrum Messenger Molecules

Item #73520, 125 mL (4.2 fl. oz.)

The Outstanding Features of PRP Cytokines, a Food Supplement

- Contains proline-rich-peptides that can modulate healthy cytokine balance
 - Provides broad spectrum immune balancing effects
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Description

PRP Cytokines is extracted from bovine colostrum, and contains certain fractions of whole colostrum, including proline-rich-peptides (PRPs) and other growth and immune factors. PRPs are cytokine precursors which modulate and promote a normal immune response. PRPs are also called transfer factor or info-peptides.

PRPs are a class of small proteins (500-5000 molecular weight) that circulate in the blood of mammals and concentrate in their colostrum, in their milk, and in their blood sera. They act as precursors that modulate cytokine production and maintain correct concentrations of these cytokines. PRPs play a role in conveying information necessary for appropriate cellular function.

Cytokines are soluble proteins which are predominantly produced by cells of the immune system. They are similar to hormones, but usually have local rather than systemic functions. Immune cells communicate with each other and with the surrounding tissue by secreting cytokines, and by expressing receptors which allow themselves to get stimulated by cytokines. The cytokine network is an important communication system involved in regulating and coordinating immunity.

The PRPs in **PRP Cytokines** are highly bioavailable and transportable, and their activity is not hindered by other components found in colostrum, such as fatty acids and globular proteins. Regular colostrum has much of its effect in the gastrointestinal tract, where the immunoglobulins affect the

localised gut immunity, whereas **PRP Cytokines'** infopeptides can have immune balancing effects throughout the whole body.

PRPs can potentially stimulate an underactive immune system or down-regulate an overactive immune system. It modulates or stabilises an overactive or suppressed immune system by supporting healthy cytokine levels in the body.

Cytokine levels can become unstable during allergic reactions and may be the triggers that produce allergy symptoms. By inhibiting the production of some cytokines involved with the allergic response, the peptides may help insure a normal healthy immune response.

Besides PRPs, **PRP Cytokines** contains glycoproteins, growth factors, neurotransmitters, cytokines (IFN-alpha, IFN-beta), enzymes, trypsin inhibitors, glycoconjugates, orotic acid, orosomucoids, lyozyme, thiocyanate, peroxidase, xanthine oxidase, sulphur, and vitamins A, B12, and E.

The colostrum used to make **PRP Cytokines** is antibiotic-free, from USDA Grade A dairies located in the Southwest United States, which use grass grown on the fertile plains of the lower Colorado River in the cows' scientific diet. No artificial feeds or feeds containing animal parts are used. The colostrum we use for **PRP Cytokines** is processed in a state-of-the-art facility dedicated solely to production of colostrum. Only milkings with 24 hours after calving are utilised, and only low heat flash

pasteurization and low heat indirect drying are used, to minimise both temperature and

length of exposure to heat, so that any harmful pathogens are removed while still preserving the bioactivity of biologically important proteins.

Every batch of **PRP Cytokines** is tested to be free of antibiotics, bacteria, heavy metals and other contaminants. **PRP Cytokines** does not contain the larger milk proteins, and only about 3% lactose.

During acute immune challenges, **PRP Cytokines** may be taken every four hours, or as often as one likes. During chronic immune challenges, it is usually taken 2-3 times per day. For maintenance of health, it may be taken once every 1-3 days.

Generally, frequency of dose is more important than quantity. For instance, 3 sprays five times per day is likely to be more beneficial than 15 sprays once a day.

Serving Size: 4 sprays (2.5 mL)

Servings Per Container: 50

Amount Per Serving:

Colostrum extract (milk)

2.5 mL

Other ingredients: Potassium sorbate, potassium benzoate, natural vanilla flavour.

Suggested Use: As a food supplement, 4 sprays orally and swallow, one or two times daily, or as directed by a healthcare practitioner.

Refrigerate after opening, tightly capped.
